

12/14/2000

1/9

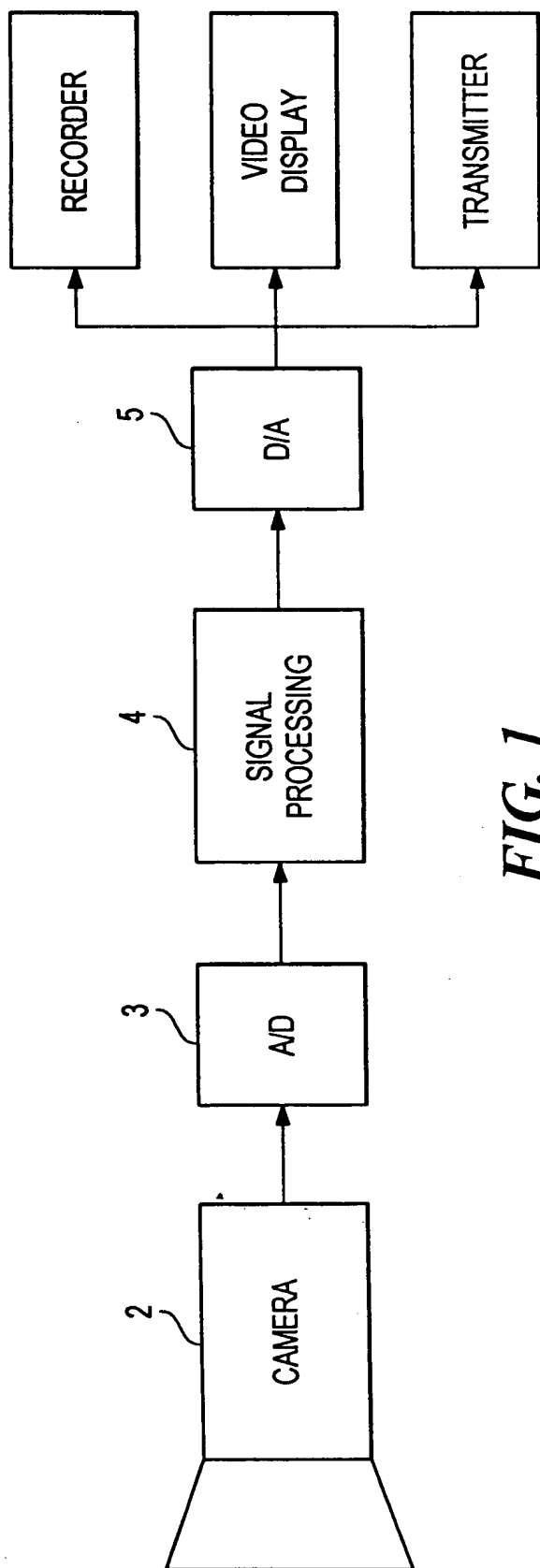


FIG. 1

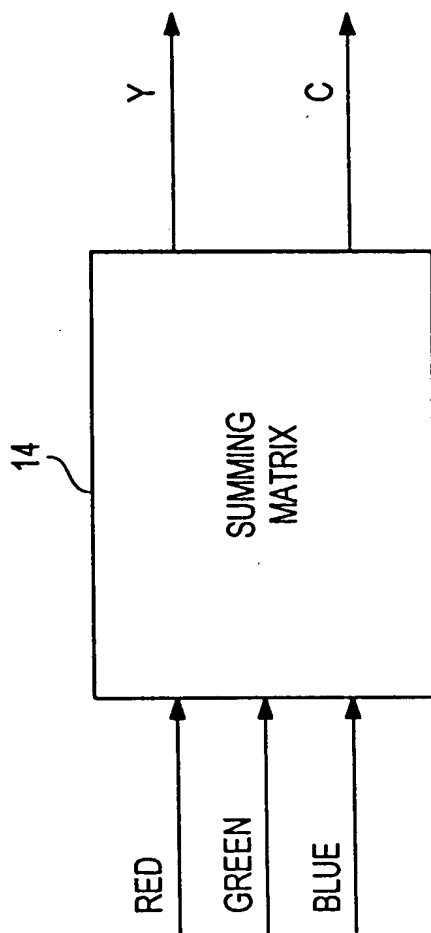


FIG. 2

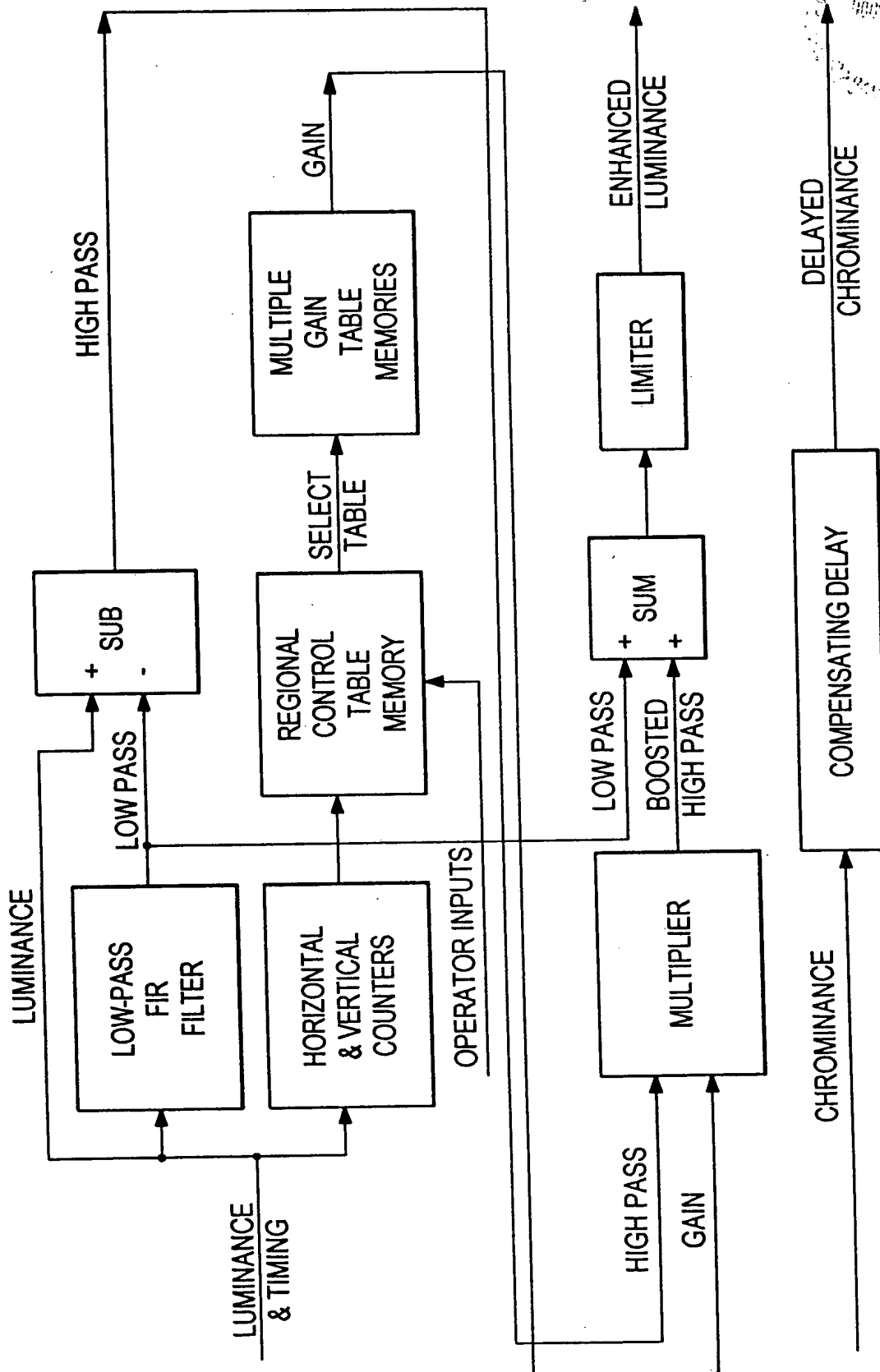


FIG. 3

GAIN TABLE MEMORY EXAMPLES

(WHITE) ↑

0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0

LOW PASS  
VALUES

(BLACK)

GAIN TABLE 0  
ALL VALUES = 0

**FIG. 4A**

0.5
0.5
0.5
0.5
0.5
0.5
0.5
0.5
0.5

GAIN TABLE 1  
ALL VALUES = 0.5

**FIG. 4B**

1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0
1.0

GAIN TABLE 2  
ALL VALUES = 1.0

**FIG. 4C**

1.0
1.0
1.1
1.1
1.2
1.2
1.3
1.3

GAIN TABLE 3  
ENHANCEMENT  
LEVEL 1

**FIG. 4D**



GAIN TABLE MEMORY EXAMPLES

(WHITE) ↑

LOW PASS  
VALUES

1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7

(BLACK)

GAIN TABLE 4  
ENHANCEMENT  
LEVEL 2

**FIG. 4E**

1.0
1.1
1.2
1.4
1.6
1.9
2.3
2.7

GAIN TABLE 5  
ENHANCEMENT  
LEVEL 3

**FIG. 4F**

1.0
1.1
1.3
1.5
2.0
2.5
3.0
3.5

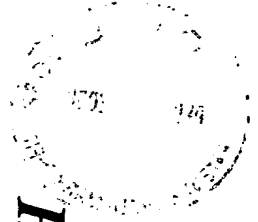
GAIN TABLE 5  
ENHANCEMENT  
LEVEL 4

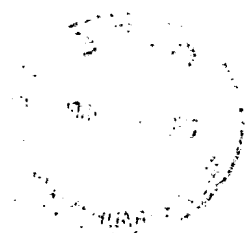
**FIG. 4G**

1.0
1.2
1.5
1.8
2.2
2.7
3.3
4.0

GAIN TABLE 7  
ENHANCEMENT  
LEVEL 5

**FIG. 4H**





REGIONAL CONTROL TABLE  
MEMORY EXAMPLE 1

↑  
VERT

0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	7	7	7	0	0	0
0	0	0	7	7	7	0	0	0
0	0	0	7	7	7	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0

SMALL ENHANCED  
REGION SURROUNDED  
BY GAIN = 0 AREA

→  
HORIZ

**FIG. 5A**



REGIONAL CONTROL TABLE  
MEMORY EXAMPLE 2

↑  
VERT

0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	7	7	7	7	7	0	0
0	0	7	7	7	7	7	0	0
0	0	7	7	7	7	7	0	0
0	0	7	7	7	7	7	0	0
0	0	7	7	7	7	7	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0

LARGER ENHANCED  
REGION SURROUNDED  
BY GAIN = 0 AREA

→  
HORIZ

***FIG. 5B***



REGIONAL CONTROL TABLE  
MEMORY EXAMPLE 3

↑  
VERT

0	0	0	0	0	0	0	0	0
0	1	1	1	1	1	1	1	0
0	1	2	2	2	2	2	1	0
0	1	2	7	7	7	2	1	0
0	1	2	7	7	7	2	1	0
0	1	2	7	7	7	2	1	0
0	1	2	2	2	2	2	1	0
0	1	1	1	1	1	1	1	0
0	0	0	0	0	0	0	0	0

SMALL ENHANCED  
REGION SURROUNDED BY  
GRADUATED SOFTENING REGIONS

→  
HORIZ

***FIG. 5C***



REGIONAL CONTROL TABLE  
MEMORY EXAMPLE 4

↑  
VERT

7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2
7	7	7	7	7	2	2	2	2

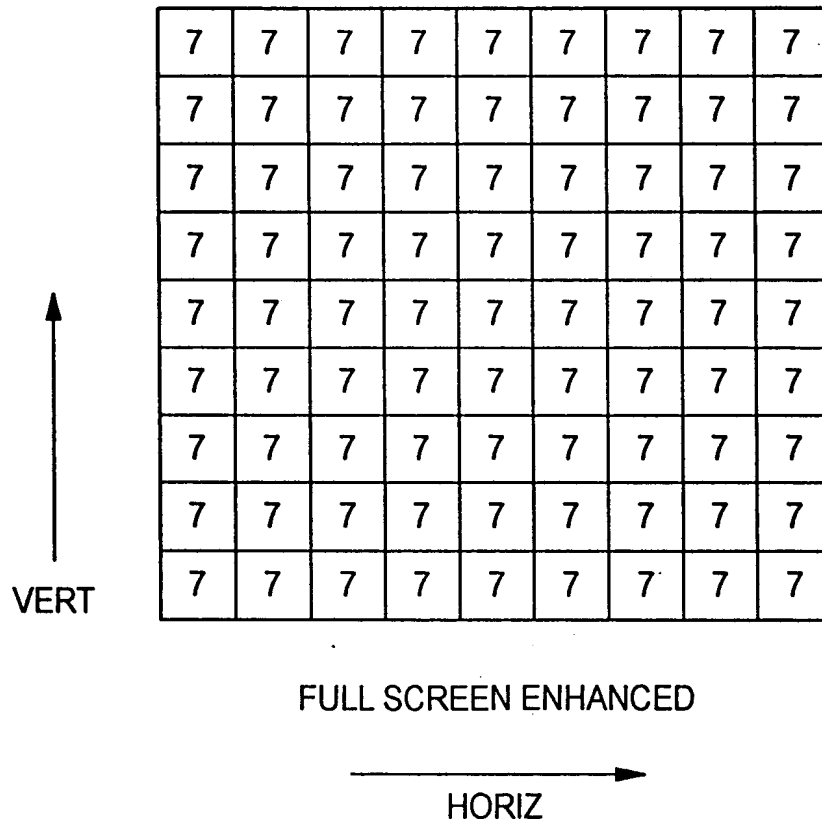
SPLIT SCREEN  
LEFT SIDE ENHANCED  
RIGHT SIDE GAIN = 1

→  
HORIZ

**FIG. 5D**



REGIONAL CONTROL TABLE  
MEMORY EXAMPLE 5



7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7
7	7	7	7	7	7	7	7	7

VERT

FULL SCREEN ENHANCED

HORIZ

***FIG. 5E***